

Warm up Grade 6

Lesson 7 Day 1

Date: \_\_\_\_\_

Show work to each of the following

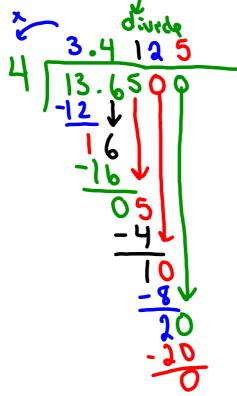
1) Stu has four bags each weighting 14.28 grams. What is the

total weight of all bags?

means multiply

Total weight of all 4 bag is

2) Jim has 13.65 m of cable to go around his square garden. What is the length of each side of his garden?



Each 5: de is 3.4125 m

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Practice

1. Estimate to choose the correct quotient for each division question.

	Question	Possible Quotients					
a)	4.4 ÷ 5	0.88	8.8	88			
b)	10.32 ÷ 6	0.172	1.72	17.2			
c)	87.2 ÷ 4	0.218	2.18	21.8 🗸			

- a) 5/1 = 1 but needs to be a little smaller
- b) 10 is close to 12 and 12/6 = 2
- c) 80/4 = 20
  - 2. Divide. Estimate to place the decimal point.

a) 8.235 ÷ 6

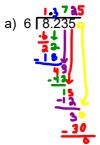
**b)** 12.6 ÷ 5

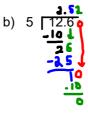
c) 39.77 ÷ 2

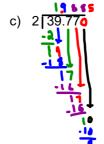
d)  $88.2 \div 5$ 

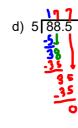
e)  $2.367 \div 4$ 

f) 4.573 ÷ 5













3. Divide. Write each quotient to the same number of decimal places as there are in the dividend.

a) 3.05 ÷ 2 d) 1.189 ÷ 3 b) \$49.67 ÷ 6e) 24.73 ÷ 9

c) 6.1 ÷ 9 f) \$26.53 ÷ 6





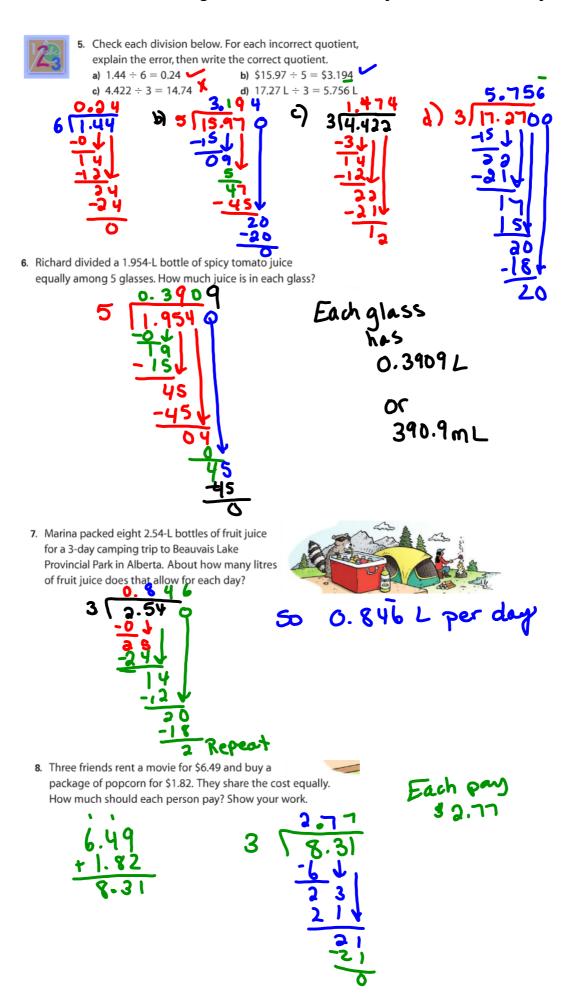
4. In a snail-racing contest, Noba's snail crawled 1.677 m in 5 min. About how far did the snail travel each minute?

About 1.5 ÷ 5 is 0.3 m in 1 min



Actual 0.3356 m in 1 min

#### Chapter 3 Decimals Lesson 7 Dividing Decimals less than 1 by whole numbers into person to the control of the co



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# Explore





You will need a calculator and a place-value chart.

➤ Use a calculator to find each quotient.

c) 168 ÷ 8	c)	25 ÷ 5	b)	1 ÷ 4	a)
16.8 ÷ 8		2.5 ÷ 5		0.1 ÷ 4	
1.68 ÷ 8		$0.25 \div 5$		0.01 ÷ 4	
0.168 ÷ 8		$0.025 \div 5$		$0.001 \div 4$	
0.0168 ÷ 8		$0.0025 \div 5$			
0.001 68 ÷ 8					

Record the quotients in a place-value chart.

Division	Tens	Ones	Tenths	Hundredths	Thousandths	Ten- Thousandths	Hundred- Thousandths
1 ÷ 4							
0.1 ÷ 4					(		^

➤ What patterns do you see in the expressions and their quotients? Use these patterns to find the quotients below.

		•		
d) 2 ÷ 8	0.2 ÷ 8	0.02 ÷ 8	$0.002 \div 8$	0.0002 ÷ 8
<b>e)</b> 35 ÷ 7	3.5 ÷ 7	0.35 ÷ 7	$0.035 \div 7$	0.0035 ÷ 7
f) 198 ÷ 9	10 8 ÷ 0	1 98 ÷ 9	$0.198 \pm 9$	$0.0198 \pm 9$

# Similar to what we have always done

## Method 1

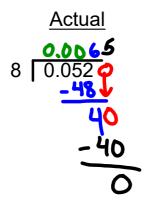
 $0.12 \div 3$ 

Is 12 hundredths divided into 3 groups

is 4 hundredths in each group



Method 2 (Long division)





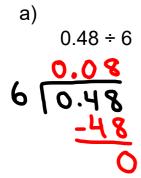
You can check by estimation first

0.052 is close to 0.056

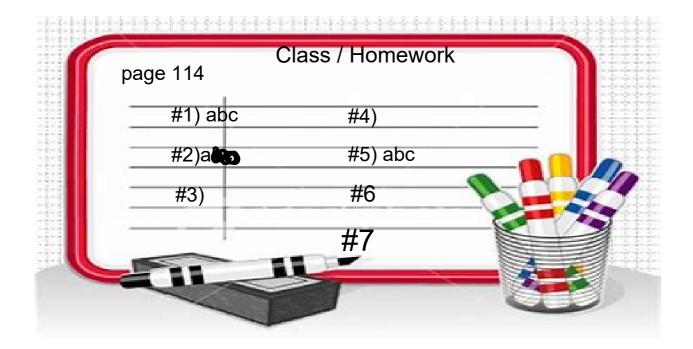
 $0.056 \div 8$ 

56 thousandths ÷ 8 is 7 thousandths

You Try
Divide the following, with long division.
NO remainder just decimal part







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## **Practice**

1. Divide.

a)  $0.28 \div 4$  b)  $0.042 \div 7$  c)  $0.015 \div 3$  d)  $0.024 \div 6$  e)  $0.16 \div 8$  f)  $0.0036 \div 9$ 

2. Find each quotient. What patterns do you see?

 $0.9 \div 3$  **b)**  $0.56 \div 7$  **c)**  $0.108 \div 9$ 

 $\begin{array}{cccc} 0.09 \div 3 & 0.056 \div 7 & 0.0108 \div 9 \\ 0.009 \div 3 & 0.0056 \div 7 & 0.001 \, 08 \div 9 \end{array}$ 

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3. Quincy has 0.926 m of string.
Suppose he cuts the string into 4 equal lengths.
What is the length of each piece of string?

- 4. a) A typical hamster eats 0.084 kg of food a week. About how much food does a hamster eat in one day?
  - b) Jiri's hamster was put on a special diet.
    Over 5 days, his hamster ate about 0.054 kg of food.
    About how much food did Jiri's hamster eat in one day?

5. Without dividing, choose the correct quotient for each division question. Explain your choice each time. Divide to check.

	Question	Possible Quotients				
a)	0.072 ÷ 9	0.8	0.08	0.008		
b)	0.124 ÷ 8	0.155	0.0155	0.001 55		
c)	0.0045 ÷ 2	0.225	0.0225	0.002 25		



**6**. A student said that since  $51 \div 3 = 17$ , then  $0.051 \div 3$  is 0.17. Is the student's reasoning correct? Give reasons for your answer.

7. Divide. Which strategies did you use to estimate?

a) 
$$0.66 \div 8$$

a) 
$$0.66 \div 8$$
 b)  $0.058 \div 4$  c)  $0.375 \div 5$ 

d) 
$$0.05 \div 8$$
 e)  $0.0061 \div 2$  f)  $0.039 \div 6$ 

f) 
$$0.039 \div 6$$